

# 5th International Symposium on Arctic Research

# ISAR-5

**-The changing Arctic and its regional to global impact:  
From information to knowledge and action-**

## Important Dates

- Soon!, Program open
- November 15, Early bird ends
- December 15, Registration stopped

Date: **15-18 January 2018**

Venue: **Hitotsubashi Hall**

National Center of Sciences Building  
**Tokyo, Japan**

Symposium website: <http://www.jcar.org/isar-5/>

E-mail: [isar5-office@nipr.ac.jp](mailto:isar5-office@nipr.ac.jp)

*The 2nd circular* <http://www.jcar.org/isar-5/2ndcircular/index.html>



# Brief schedule (Draft):

**Jan. 15 p.m. Reception desk open (preparatory and side meetings)  
Public Lecture (in Japanese)**

**Jan. 16 a.m. Opening session  
Keynote speeches (2)  
Session presentation (6)  
p.m. Breakout sessions 1&2 (6)  
Poster Presentation Core Time 1  
eve. Reception**

**Jan. 17 a.m. Keynote speeches (2)  
Session presentations (6)  
p.m. Breakout sessions 3&4 (6)  
Poster Presentation Core Time 2**

**Jan. 18 a.m. Keynote speeches (2)  
Session presentations (6)  
p.m. Breakout sessions 5&6 (6)  
Closing session**

## Keynote Speakers:

1. K.I. Ohshima, Hokkaido Univ., Japan, Physical Oceanography
2. Peter Wadhams, BAS, UK, UAV technology
3. Peter Schweitzer, University of Vienna, Austria, Anthropology
4. Jacqueline Grebmeier, University of Maryland, Ecological Oceanography
5. Bruce Forbes, University of Lapland, Finland, Applied ecology and geography
6. Tero Mustonen, University of Eastern Finland, Finland, Biodiversity

## Presenter of Session Presentation session (plenary)

### Jan. 16

- |          |                  |                              |
|----------|------------------|------------------------------|
| 1. G6&S6 | Irene D. Alabia, | Oceanography                 |
| 2. S9    | Oystein Godoy,   | Virtual research environment |
| 3. G1    | Matthew Shupe,   | Meteorology                  |
| 4. S7S8  | TBD,             | Arctic Sea Routes            |
| 5. S10   | Violetta Gassiy  | Indigenous community         |
| 6. S14   | Yuichiro Fujioka | Environmental education      |

### Jan.17

- |        |                  |                            |
|--------|------------------|----------------------------|
| 1. S12 | Naotaka Hayashi, | TBD                        |
| 2. G2  | Michael Karcher, | Atlantic water             |
| 3. G5  | M. Kamara        | Boreal forest              |
| 4. S1  | Jim Overland,    | SWIPA assessment           |
| 5. G7  | Kazuo Shiokawa,  | Internal magnetosphere     |
| 6. G4  | Masashi Niwano,  | Greenland sfc mass balance |

### Jan. 18

- |           |                              |                         |
|-----------|------------------------------|-------------------------|
| 1. S4     | Akihito Ito,                 | Methan                  |
| 2. S5     | Leif G. Anderson, Are Olsen, | Ocean Carbon cycle      |
| 3. S2     | Matthew Shupe,               | MOSAiC                  |
| 4. S3     | Daqing Yang,                 | Heat transfer by rivers |
| 5. S11S13 | TBD                          |                         |
| 6. S15    | Shiro Sasaki,                | Weaving technic         |

# Breakout Sessions

## The Regular Session (Main Chair)

- (G1) Atmosphere (M. Matsueda)
- (G2) Ocean and sea ice (H. Yamaguchi)
- (G3) Rivers, lakes, permafrost and snow cover (M. Ishikawa)
- (G4) Ice sheets, glaciers and ice cores (H. Enomoto)
- (G5) Terrestrial ecosystems (Y. Matsuura)
- (G7) Geospace (Y. Ogawa)
- (G8) Policies and economy (S. Tabata)
- (G9) Social and cultural dimensions (S. Kondo)

## The Special Session (Main Chair)

- (S1) Arctic Warming by Natural Variability and/or Human Impact (H. Tanaka)
- (S2) Synergies for “New Arctic” Climate Prediction, Observation and Modeling (J. Inoue)
- (S3) A Complex Adapting Arctic Ecohydrology in the Context of Changing Climate (H. Park)
- (S4) Biogeochemical Cycles and Biodiversity of Terrestrial Ecosystems under Arctic Warming (H. Kobayashi)
- (S5) Synoptic Arctic Survey – An Ocean Research Program for the Future (A. Olsen)
- (G6S6) Changes in sea ice, oceans and ecosystems in the Arctic Ocean (A. Fujiwara)
- (S7S8) Arctic challenge for ice observation and ice navigation (N. Otsuka)
- (S9) Understanding the Changing Arctic through Data: Stewardship, Publication, and Science (P. Pulsifer)
- (S10) Sustainable Development in the Russian Arctic: Perspectives from Economic, Environmental and Policy Studies (V. Gassiy)
- (S11) Environmental, Economic, Societal and Geopolitical Dynamics in the Arctic, their Global Drivers and Implications (L. Heininen)
- (S12) Greenlandic Reflections of Global Concerns: Ecological, Social and Political Perspectives on the Future (N. Hayashi)
- (S13) Non-Arctic Decision-making and the Dynamics of Social Change in the North (N. Sellheim)
- (S14) Synthesizing Local Interactions between Permafrost and Human Societies (H. Takakura)
- (S15) Technology, Infrastructure and Human Space in the Past and Present of Northern Regions (B. Okoan)